

CLEAR REJECT MESSAGE FOR CALL CLEARING AND MOBILE RESOURCE
ASSIGNMENT WITH HOLDING CALL

ABSTRACT OF THE DISCLOSURE

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A new Clear Reject message (or, equivalently, a new cause value indicating "Call on Hold" for the Clear Command) is defined for IS-2001 wireless communications to prevent resource deallocation prior to re-paging of a mobile station terminating connections with a call on hold. In response to receiving the new message from a mobile switching center, the serving base station maintains resource allocations for the mobile station and notifies the mobile station of the holding call, causing a ring tone to sound at the mobile station. State transition and paging channel monitoring by the mobile station, use of paging resources by the mobile switching center, and resource tear-down and reassignment by the base station are all avoided.